M.R.O. 1—77,006—8-6-37.

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 2919-2920 Press / Mis.
210-212.

Dated 10-12. 1892.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 10th December 1872.

No. 210. Read the following letter from the Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 20th November 1872, No. 637 :—

I HAVE the honour to forward, for submission to the Government of India, the report of progress made in the construction of the Madras Railway for the quarter ended the 30th September 1872, accompanied by a brief descriptive report.

Brief Descriptive Report submitted with Progress Report for quarter ending 30th September 1872.

NEILGHERRY BRANCH LINE.

Earthwork.—This item refers to earthwork in cutting and embankments, including earthwork in connection with the doubling of the main line between Noyel Bridge and Pothanore Station.

Small Bridges—Large Bridges.—Under these headings the expenditure on excavation of foundations and masonry is included.

Fencing.—The expenditure on ditch and mound fencing, planting aloes, stone fence, and fencing drains is included under this head.

Other Items.—These include Engineer's out-bungalow, Engineer's Office, making petty roads, contingent establishment, extra earthwork in road approaches and in extra drains, pitching, road and stream diversion, metalling of roads, gatekeepers' lodges, and platelayers' huts for tools.

Ballast.—This refers to the ballasting of the line, including ballasting in connection with the doubling of the main line between Noyel Bridge and Pothanore Station.

Permanent-way.—This refers to the leading and laying of the permanent-way of the line, including the doubling of the main line between Noyel Bridge and Pothanore Station.

Platforms.—This includes the platforms at Coimbatore, Tudialoor, Karamady, and Mettapolliem Stations and the back verandah and platform at Pothanore Station.

Passengers' Buildings.—This includes the station-houses and urinals at Coimbatore, Tudialoor, Karamady and Mettapolliem Stations.

Goods-sheds.—This refers to the goods sheds at Coimbatore and Mettapolliem Stations.

Watering arrangements.—This includes the well staging, water column, and taking up and relaying piping from tank-house to water column at Pothanore Station, also the well staging, water column and tank-house at Karamady Station.

Staff Quarters.—This refers to the Station Masters' Bungalows at Coimbatore and Mettapolliem Stations, and the Engine Drivers' Bungalow at Mettapolliem Station.

Small items.—These include the extra siding in the Station yard at Pothanore Station, and the miscellaneous works at Pothanore, Coimbatore, Tudialoor, Karamady, and Mettapolliem Stations.

SOUTH-WEST LINE.

Earthwork—Ballast—Permanent-way.—These three items refer to the alterations and additions to permanent-way, new Central Station, sanctioned G. O., No. 1,617, dated 4th July 1872.

D. Watering arrangements.—This refers to the watering arrangements at Bangalore Station.

G. Small items.—This refers to the store-room for Carriage Examiner at the new Central Station, and alterations and additions to permanent-way, new Central Station.

NORTH-WEST LINE.

Large Bridges.—This refers to the new bridges over the Huggry and Cheyaur Rivers and the bridge at the 236th mile, 14th Telegraph Post.

Other items.—This refers to the Watchmen's huts on the 3rd Division, North-West Line.

A. Platforms.—This refers to the covered platform at Raichore Station.

B. Passengers' Buildings.—These include the rest-house and urinals at Goondacul, and the additional godown for stores at the refreshment-room, Raichore.

D. Watering arrangements.—This refers to the additional watering arrangements at Goondacul Station.

E. Staff Quarters.—These refer to the Sub-Inspector's Bungalow at Auspree, dwelling-houses for Native Staff of the Traffic Department at Goondacul, do. for Clerks and for Porters and Pointsmen at Raichore.

G. Small items.—These include the shear legs at Raichore, weigh-bridge and office at Bellary and miscellaneous works at Raichore.

1st November 1872.

(Signed) B. ANDERSON,
Chief Engineer.

MADRAS

A.—General Progress Report of the Neilgherry

RAILWAY.

Branch Line for the quarter ending 30th September 1872.

Reference to heads of Estimate.	Details.	Total Estimate. Indian Expenditure.	Total Estimate. Value of English Stores.	Actual Indian Expenditure. During quarter.	Actual Indian Expenditure. Total from commencement to end of quarter.
		Rs. A. P	Rs. A. P.	Rs. A. P.	Rs. A. P.
I.	Preliminary Expenses ...	.....	.....	.....	10,944 0 0
II.	Land	.....	.....	.....	.....
III.	Construction of Line	[illegible]	[illegible]	[illegible]	[illegible]
	Earthwork. Cuttings and Embankment ...	.....	.....	.....	.....
	Earthwork. Rock Cutting ...	2,26,309 0 0	.....	12,854 0 0	1,58,797 0 0
	Small Bridges and Culverts ...	2,17,975 0 0	17,157 0 0	27,255 0 0	1,59,685 0 0
	Large Bridges (as per Statement B).	1,51,171 0 0	82,580 0 0	9,237 0 0	60,093 0 0
	Fencing	36,427 0 0	.....	5,896 0 0	11,455 0 0
	Other Items...	1,24,547 0 0	.....	2,923 0 0	69,206 0 0
IV.	Ballast and Permanent-way ...	[illegible]	[illegible]	[illegible]	[illegible]
	Ballast ... Collected. ...	71,882 0 0	.....	5,371 0 0	29,343 0 0
	Ballast ... Spread				
	Rails ... Lifted	.....	.....	.....	.....
	Rails ... Linked in ...				
	Rails ... In Depôt. ...				
	Sleepers ... Lifted ... Iron ...	2,05,725 0 0	6,71,391 0 0	4,564 0 0	55,640 0 0
	Sleepers ... Lifted ... Wood ...				
	Sleepers ... Laid ... Iron ...				
	Sleepers ... Laid ... Wood ...				
	Sleepers ... In Depôt, Iron ...				
	Sleepers ... In Depôt, Wood ...				
V.	Stations and Buildings (as per Statement C)	[illegible]	[illegible]	[illegible]	[illegible]
	a. Platforms	28,085 0 0	4,015 0 0	4,579 0 0	7,573 0 0
	b. Passengers' Buildings ...	30,633 0 0	2,530 0 0	8,469 0 0	18,411 0 0
	c. Goods Sheds	31,069 0 0	11,084 0 0	6,405 0 0	6,405 0 0
	d. Watering arrangements ...	6,745 0 0	2,755 0 0	831 0 0	2,507 0 0
	e. Staff Quarters by Rooms ...	12,923 0 0	.....	717 0 0	717 0 0
	f. Engine Sheds	.....	.....	.....	.....
	g. Small Items	73,225 0 0	97,914 0 0	2,596 0 0	3,911 0 0
VI.	Telegraph	.....	.....	.....	.....
VII.	Plant	2,639 0 0	.....	.....	.....
VIII.	Rolling Stock (*vide* Statement D) ...	.....	.....	.....	.....
IX.	Maintenance	82,789 0 0	.....	.....	.....
X.	Establishment	.....	.....	*Nil.*	*Nil.*
XI.	Contingencies	.....	.....	6,669 0 0	42,508 0 0
				.....	.....

CHIEF ENGINEER'S OFFICE,
1st November 1872.

(Signed) F. CHURCH,
Chief Auditor.

(Signed) B. ANDERSON,
Chief Engineer.

Number. Total.	Number. Finished.	Number. In hand.	Quantities. Total as per Estimate.	Quantities. Executed during quarter.	Quantities. Executed to end of quarter.	Quantities Permanent-way. Total arrived in Port.	Quantities Permanent-way. Arrived in Port during quarter.	Probable date. Of completion.	Probable date. By which the Permanent-way could be laid if urgently required.	Remarks.
...	...	...	...	...	...	...	...	...	.....	
...	...	...	...	...	...	...	...		.....	
...	...	...	C. yards.	C. yds.	C. yds.	...	...	31st Mar. 1873.	.....	
...	...	...	[illegible]	[illegible]	[illegible]	...	...		.....	
...	...	...	...	...	...	...	...		.....	
Miles. 25·09	...	...	C. yards. 823,264	C. yds. 85,636	C. yds. 699,798	...	...		.....	
No. 106	No. 20	No. 86	...	...	...	...	...	Do.	.....	
8	...	8	...	...	...	...	...		.....	
Miles. 50·18	Miles. 33·93	Miles. 16·25	...	...	...	...	...		.....	
No. 6	No. ...	No. 6	...	...	...	...	...		.....	
Miles.	Miles.	Miles.	...	...	...	...	...		.....	
[illegible]	...	...	...	...	...	...	...	Do.	.....	
Miles of track. 25·09	16·65	8·44	...	...	...	...	...	...	.....	
...	...	...	...	...	...	19,086	...	31st Mar. 1873.	.....	
25·09	21·31	3·78	...	...	...	118,927	...		.....	
[illegible]	...	[illegible]	...	...	...	...	...	30th June 1873.	.....	
5	...	5	...	...	...	...	...		.....	
4	...	4	...	...	...	...	...		.....	
2	...	2	...	...	...	...	...		.....	
1	...	1	...	...	...	...	...		.....	
3	...	3	...	...	...	...	...		.....	
...	...	...	...	...	...	...	...		.....	
5	...	5	...	...	...	...	...		.....	
...	...	...	...	...	...	...	..	...	.....	
...	...	...	...	...	...	...	...	...	.....	
...	...	...	...	...	...	...	...	...	.....	
...	...	...	...	...	...	...	...	...	.....	
...	...	...	...	...	...	...	...	...	.....	
...	...	...	...	...	...	...	...	...	.....	

(Signed) R. B. ELWIN,
Agent and Manager.

(Signed) C. M. MOBERLY, Captain,
Examiner of Railway Accounts.

A.—General Progress Report of the North-West Line for the quarter ending 30th September 1872.

Reference to heads of Estimate.	Details.	Total Estimate. Indian Expenditure.	Total Estimate. Value of English Stores.	Actual Indian Expenditure. During quarter.	Actual Indian Expenditure. Total from commencement to end of quarter.
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
I.	Preliminary Expenses	.....	.....	.....	.....
II.	Land	.....	.....	.....	.....
III.	Construction of Line	5,25,500 0 0	6,07,199 0 0	17,834 0 0	1,63,722 0 0
	Earthwork. Cuttings and Embankment	.....	.....	.....	.....
	Earthwork. Rock Cutting ...	.....	.....	.....	.....
	Small Bridges and Culverts ...	.....	.....	.....	.....
	Large Bridges (as per Statement B).	5,15,300 0 0	6,07,199 0 0	25,949 0 0	1,63,722 0 0
	Fencing	.....	.....	.....	.....
	Other Items...	10,200 0 0	.....	1,285 0 0	1,285 0 0
IV.	Ballast and Permanent-way ...	.....	.....	.....	.....
	Ballast ... Collected ...	.....	.....	.....	.....
	Ballast ... Spread ...				
	Rails ... Lifted ...				
	Rails ... Linked in ...				
	Rails ... In Depôt ...				
	Sleepers ... Lifted ... Iron ...	.....	.....	.....	.....
	Sleepers ... Lifted ... Wood ...				
	Sleepers ... Laid ... Iron ...				
	Sleepers ... Laid ... Wood ...				
	Sleepers ... In Depôt... Iron ...				
	Sleepers ... In Depôt... Wood ...				
V.	Stations and Buildings (as per Statement C)	1,66,217 0 0	98,458 0 0	4,727 0 0	58,164 0 0
	a. Platforms	10,923 0 0	5,400 0 0	.....	4,365 0 0
	b. Passengers' Buildings ...	2,141 0 0	.....	20 0 0	36 0 0
	c. Goods Sheds	.....	.....	.....	.....
	d. Watering arrangements ...	1,774 0 0	209 0 0	867 0 0	1,629 0 0
	e. Staff Quarters by Rooms ...	13,921 0 0	.....	3,228 0 0	4,910 0 0
	f. Engine Sheds	.....	.....	.....	.....
	g. Small Items	72,178 0 0	87,849 0 0	612 0 0	45,694 0 0
VI.	Telegraph				
VII.	Plant	.....	.....	.....	.....
VIII.	Rolling Stock (*vide* Statement D) ...				
IX.	Maintenance	3,81,117 0 0	.....	20,022 0 0	3,66,894 0 0
X.	Establishment	.....	.....	.....	.....
XI.	Contingencies				

Numbers. Total.	Finished.	In hand.	Quantities. Total as per Estimate.	Executed during quarter.	Executed to end of quarter.	Quantities Permanent-way. Total arrived in Port.	Arrived in Port during quarter.	Probable date. Of completion.	By which the Permanent-way could be laid if urgently required.	Remarks.
...	...	...	...	...	...	...	...	...	.....	
...	...	...	...	...	...	...	...	...	.....	
3	...	3	...	...	...	...	...	...	.....	
...	...	...	...	...	...	...	...	...	.....	
...	...	...	...	...	...	...	...	...	.....	
...	...	...	...	...	...	...	...	...	.....	
3	...	3	...	...	...	...	...	*	.....	* Bridge at 286 miles, 14 Telegraph, posts, 30th June 1873. Huggrybridge. Not known. Cheyaurbridge. Not known.
...	...	...	...	...	...	...	...	...	.....	
...	...	...	...	...	...	...	...	30th June 1873.	.....	
...	...	...	...	...	...	...	...	...	.....	
...	...	...	...	...	...	...	...	...	.....	
21	16	5	...	...	...	...	...	...	.....	
1	...	1								
2	...	2								
...	...	...								
1	1	...	...	...	...	...	...	31st Mar. 1873.	.....	
4	2	2								
...	...	...								
13	10	3								
...	...	...	...	...	...	...	...	...	.....	
...	...	...	...	...	...	...	...	...	.....	
...	...	...	...	...	...	...	...	...	.....	

CHIEF ENGINEER'S OFFICE,
1st *November* 1872.

(Signed) F. CHURCH,
Chief Auditor.

(Signed) B. ANDERSON,
Chief Engineer.

(Signed) R. B. ELWIN,
Agent and Manager.

(Signed) C. M. MOBERLY, Captain,
Examiner of Railway Accounts.

B.—Progress Report of Large Bridges on the Neilgherry Branch line for the Quarter ending 30th September 1872.

Names of Bridges.	Foundations.	Abutments and Piers up to springing or girder level.	Arching or erection of Girders.	—	Remarks.
At 5 miles 68 chains	Laid ...	To the top of girder stones...	.....	The whole of these bridges will probably be completed by the 31st March 1873.	Four 64-feet openings with wrought-iron girders.
a. Per-centage done	.....	98			
b. Date of completion	.....	Not completed.			
At 19 miles 4 chains	Laid ...	To the top of girder stones...	.....		Do. do. do.
a. Per-centage done	.....	97			
b. Date of completion	.....	Not completed.			
At 11 miles 7 chains	Laid ...	To the top of girder stones...	.....		Do. do. do.
a. Per-centage done	.....	95			
b. Date of completion	.....	Not completed.			
At 10 miles 11 chains	Laid ...	To the top of girder stones...	.....		Double 64-feet openings with wrought-iron girders.
a. Per-centage done	.....	96			
b. Date of completion	.....	Not completed.			
At 12 miles 3 chains	Laid ...	To the top of girder stones...	.....		Do. do. do.
a. Per-centage done	.....	96			
b. Date of completion	.....	Not completed.			
At 5 miles 29 chains	Laid ...	To the top of girder stones...	.....		Do. do. do.
a. Per-centage done	.....	99			
b. Date of completion	.....	Not completed.			
At 6 miles 46 chains	Laid ...	Two abutments to the top of girder stone. Piers built up to ground level ...	.....		Triple 30 do. do.
a. Per-centage done	.....	80			
b. Date of completion	.....	Not completed.			
At 24 miles 34 chains	Laid ...	Abutments, foundation laid.	.....		Single 12-feet arch.
a. Per-centage done	.....	17			
b. Date of completion	.....	Not completed.			

a. This refers to the approximate per-centage of the whole work done at the end of the quarter; not to the money expenditure.
b. This refers to the probable date of completion of each item.

CHIEF ENGINEER'S OFFICE,
1st November 1872.

(Signed) B. ANDERSON,
Chief Engineer.

B.—Progress Report of large Bridges on the South-West Line for the quarter ending 30th September 1872.

Nil.

CHIEF ENGINEER'S OFFICE,
1st November 1872.

(Signed) B. ANDERSON,
Chief Engineer.

B.—Progress Report of Large Bridges on the North-West Line for the quarter ending 30th September 1872.

Names of Bridges.	Foundations.	Abutments and piers up to springing or girder level.	Arching or erection of girders.	Other Items.	Remarks.
Cheyaur bridge	.....	One abutment and seven piers up to girder level. Eighth pier, half finished.	....	Earthwork in approaches and 3 feet culvert.	These figures refer to the masonry portion only.
a. Per-centage done...	60 ...	58 ...	*Nil*	Finished	Iron cylinders have not yet arrived from England.
b. Date of completion	30th June 1873	Not known ...	Not known ...		
Bridge at 286th mile, 14th Telegraph post.	... .	.....	.....	.....	The sanction was received so late in the year that there was only time to make a diversion and put in fender walls with floor. No work done to new pier and abutment.
a. Per-centage done...	10 ...	.....	.....	.....	
b. Date of completion	30th June 1873	.....	.....	.....	
Huggry bridge	.....	9 Screw pile piers on Bellary side finished, the remaining piers are awaiting cylinders from England.	7 Sets of girders are rivetted on Bellary bank, and 6 sets on Madras bank.	.....	
a. Per-centage done	.....	10 ...	.....	.....	
b. Date of completion	.....	Not known ...	Not known ...	.....	* Cannot fix a date until I am informed when cylinders may be expected from England.

CHIEF ENGINEER'S OFFICE,
1st November 1872.

(Signed) B. ANDERSON,
Chief Engineer.

C.—Progress Report of Stations on the Neilgherry Branch Line for the quarter ending 30th September 1872.

Names of Stations.	A. Platform.	B. Passengers' Buildings.	C. Goods Shed.	D. Watering arrangements.	E. Staff Quarters (by rooms).	F. Engine Sheds.	G. Small Items.	Remarks.
Tudialoor at 9 miles 5 chains ...	.....	.....	.....	.....	.....	.....	.....	
a. Per-centage done	Completed ...	Completed ...	.....	.....	.....	.....	.....	
b. Date of completion	30th June 1872.	30th June 1872	.....	.....	.....	.....	.....	
Karamady at 20 miles 43 chains ...	.....	.....	.....	.....	.....	.....	.....	
a. Per-centage done	Completed ...	Completed ...	.....	In progress ...	.....	.....	.....	
b. Date of completion	30th June 1872.	30th June 1872.	.....	31st Dec. 1872.	.....	.....	.....	
Coimbatore at 2 miles 77 chains ...	.....	.....	.....	.....	.....	.....	.....	
a. Per-centage done	95	95	75	.....	50	.....	25	
b. Date of completion... ...	25th Oct. 1872.	25th Oct. 1872.	15th Nov. 1872.	.....	1st Dec. 1872.	.....	15th Nov. 1872	
Pothanore at 301 miles 69 chains from Madras.	.....	.....	.....	.....	.....	.....	.....	
a. Per-centage done	Not commenced.		.....	.....	.....	.....	.....	
b. Date of completion	.....	30th June 1873.	.....	.....	.....	.....	.....	
Mettapolliem at 24 miles 79 chains...	.....	.....	.....	.....	.....	.....	.....	
a. Per-centage done	35	35	18	.....	.....	.....	.....	
b. Date of completion	31st Mar. 1873.	31st Mar. 1873.	31st Mar. 1873.	.....	31st March 1873	.....	31st March 1873	

a. This refers to the approximate per-centage of the whole work done at the end of the quarter; not to the money expenditure.
b. This refers to the probable date of completion of each item.

CHIEF ENGINEER'S OFFICE,
1st November 1872.

(Signed) B. ANDERSON,
Chief Engineer.

C.—Progress Report of Stations on the South-West Line for the quarter ending 30th September 1872.

Nil.

CHIEF ENGINEER'S OFFICE.
1st November 1872.

(Signed) B. ANDERSON,
Chief Engineer.

C.—Progress Report of Stations on the North-West Line for the quarter ending 30th September 1872.

Names of Stations.	A. Platform.	B. Passengers' Buildings.	C. Goods Shed.	D. Watering arrangements.	E. Staff Quarters (by rooms).	F. Engine Sheds.	G. Small Items.	Remarks.
Raichore ...	*	Completed ...	Completed ...	† Completed...	Completed ...	‡ Completed ...	§ Completed ...	*Station-house, platform complete; covered platform as last report. † Wash-out cocks in engine-shed not put in; all other works completed. ‡ Engine shed, masonry finished; carriage shed, completed. § All completed except shear legs not erected. Ash-pit under shear legs not constructed.

CHIEF ENGINEER'S OFFICE,
1st November 1872.

(Signed) B. ANDERSON,
Chief Engineer.

D.—General Progress Report of Work in Erecting and Building Locomotive and Rolling Stock for quarter ending 30th September 1872.

	Number sanctioned.	Number erected up to 31st March 1872.	Number erected during current year. During quarter.	Number erected during current year. To end of quarter.	Building or under erection at end of quarter.	Arrived at Shop during quarter.	Arrived at Port during quarter.	Balance to arrive in Port.	Remarks.
Locomotives	126	126	.....	.....	.....	.....	.....	.....	
Tenders	106	106	.....	.....	.....	.....	.....	.....	
Sleeping carriages	4	4	.....	.....	.....	.....	.....	.....	
First-class do.	23	15	.....	.....	.....	.....	.....	.....	
Second-class do.	57	55	.....	.....	.....	.....	.....	.....	
Second do. do. brakes	5	.....	.....	.....	.....	.....	.....	.....	
Third do. do. do.	30	30	.....	.....	.....	.....	.....	.....	
Do. do. do.	207	171	.....	35	.....	.....	.....	.....	
Cooly class or covered carriages	25	25	.....	.....	.....	.....	.....	.....	
Third do. upper-storied carriages	2	2	.....	.....	.....	.....	.....	.....	
Composite carriages	31	26	.....	.....	.....	.....	.....	.....	
Night do. do.	16	6	.....	.....	10	.....	.....	.....	
Engineer's Inspection carriage with brake.	1	1	.....	.....	.....	.....	.....	.....	
Invalid carriages	2	.....	.....	.....	1	.....	.....	.....	
Open goods wagons	80	a 352	.....	.....	.....	.....	.....	.....	a Sanction received in Government Orders, Nos. 272 and 3,004, dated 22nd January and 12th December 1870, for conversion of two of these vehicles into fire-engine trucks, and 292 into high-sided open goods wagons.
Open-sided goods wagons			.....	.....	.....	.....	.....	.....	
High-sided open goods wagons	2,153	1,860	.....	.....	.....	.....	.....	.....	
High open goods wagons	5	5	.....	.....	.....	.....	.....	.....	
Ballast wagons	203	244	.....	.....	.....	.....	.....	.....	
Coke wagons	360	b 410	.....	.....	.....	.....	.....	.....	b Sanction received in Government Order No. 3,004, dated 12th December 1870, for conversion of fifty of these vehicles into covered goods wagons.
Road wagons	7	7	.....	.....	.....	.....	.....	.....	
Cattle wagons	35	35	.....	.....	.....	.....	.....	.....	
Road wagons with brake	25	22	.....	.....	.....	.....	.....	.....	
Covered goods wagons	75	c 28	.....	.....	.....	.....	.....	.....	c Sanction received from Consulting Engineer, No. 397, dated 14th May 1864, for conversion of three of these vehicles into road-brake wagons.
Carriage trucks	30	20	.....	d 10	.....	.....	.....	.....	
Timber trucks	150	144	.....	.....	.....	.....	.....	.....	
Platform trucks	.....	e 6	.....	.....	.....	.....	.....	.....	
Fire-engine trucks	2	.....	.....	.....	.....	.....	.....	.....	d Converted from open-sided goods wagons.
Water trucks	4	4	.....	.....	.....	.....	.....	.....	
Passengers' luggage vans	25	25	.....	.....	.....	.....	.....	.....	
Goods brake vans	69	60	.....	.....	.....	.....	.....	.....	
Gun-powder vans	3	3	.....	.....	.....	.....	.....	.....	
Oil Store vans	3	3	.....	.....	.....	.....	.....	.....	
Horse-boxes	50	40	.....	.....	10	.....	.....	.....	
Travelling cranes	4	4	.....	.....	.....	.....	.....	.....	
Buffer springs	.....	.....	.....	.....	.....	.....	.....	.....	e Sanction received from Consulting Engineer, No. 397, dated 14th May 1864, for conversion of these six vehicles into timber trucks.
Carriage and wagon springs	.....	.....	.....	.....	.....	.....	.....	.....	
Draw springs	.....	.....	.....	.....	.....	.....	.....	.....	
Axles	.....	.....	.....	.....	.....	.....	.....	.....	
Wheels, pairs of	.....	.....	.....	.....	.....	.....	.....	.....	
Sets of iron work carriages	.....	.....	.....	.....	.....	.....	.....	.....	
Do. do. wagons	.....	.....	.....	.....	.....	.....	.....	.....	
Total	3,774	3,607	.....	45	21	.....	.....	.....	

Certified as to number sanctioned and number erected.

26th November 1872,

(Signed) F. CHURCH, *Chief Auditor,*

(Signed) W. B. WRIGHT, *Locomotive Superintendent.*

(Signed) R. B. ELWIN, *Agent and Manager.*

Proceedings of the Madras Government, Public Works Department, 10th December 1872.

No. 211. ORDER THEREON, 10th December 1872, No. 2,919.

RAILWAY, No. 43.

ORDERED that this report be submitted to the Government of India.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E., *Secretary to Government.*

No. 212. DOCKET No. 2,920, dated 10th December 1872.

COPY of the above forwarded to the Government of India.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E., *Secretary to Government.*

Brief descriptive report submitted with Progress Report for quarter ending 30th September 1872.

Nilgherry Branch Line.

Earthwork. This item refers to Earthwork in Cutting and Embankments including Earthwork in Connection with the doubling of the main line between Nogel Bridge and Pothanore Station.

Small Bridges. Large Bridges. Under these headings the expenditure on Excavation of foundations and Masonry is included.

Fencing. The expenditure on ditch & mound fencing, planting Aloes, Stone fence, and fencing Beams is included under this head.

Other items. These include Engineers out-bungalow, Engineers Office, making petty Roads, Contingent Establishment, Extra Earthwork in road approaches and in extra drains, Pitching, Road and Stream Diversion, Metalling off roads, Gatekeepers lodges & Platelayers huts for tools.

Ballast. This refers to the ballasting of the line including ballasting in connection with the doubling of the main line between Nogel Bridge and Pothanore Station.

Permanent way. This refers to the leading & laying of the Permanent way of the line including the doubling of the main line between Nogel Bridge and Pothanore Station.

Platforms. This includes the Platforms at Coimbatore, Sidiaiore, Karamady and Mettapollium Stations and the back Verandah & Platform at Pothanore Station

Passengers buildings. This includes the Station houses and urinals at Coimbatore, Pudialore, Karamady and Mettapolliem Stations.

Goods Sheds. This refers to the Goods sheds at Coimbatore and Mettapolliem Stations.

Watering Arrangements. This includes the Well Staging, Water Column, and taking up and relaying piping from tank house to water Column at Pothanore Station. also the Well staging, water Column and tank house at Karamady Station.

Staff Quarters. This refers to the Station Masters Bungalow at Coimbatore and Mettapolliem Stations, and the Engine drivers bungalow at Mettapolliem Station.

Small items. These include the extra siding in the Station yard at Pothanore Station, and the Miscellaneous works at Pothanore, Coimbatore, Pudialore, Karamady & Mettapolliem Stations.

South West Line.

Earthwork. Ballast Permanent way } These three items refer to the alterations and additions to Permanent Way, New Central Station - sanctioned. G.O. No. 1617 dated 4th July 1872.

II. Watering arrangements. This refers to the Watering Arrangements at Bangalore Station.

G. Small items. This refers to the Store room for Carriage Examiner at the New Central Station and alterations & additions to Permanent Way New Central Station.

North West Line.

Large Bridges. This refers to the new bridges over the Nuggur and Chelyair Rivers and the bridge at the 28th mile 14 Lel: Post.

Other items. This refers to the Watchmen's huts on the 3rd Division N. W. Line.

A. Platforms. This refers to the Covered Platform at Raichore Station.

B. Passenger buildings. These include the Rest house & Urinals at Goondacul and the additional Godown for Stores at the refreshment room, Raichore.

D. Watering arrangements. This refers to the additional watering arrangements at Goondacul Station.

E. Staff Quarters. These refer to the Sub inspectors bungalow at Auspree, Dwelling houses for native staff of the Traffic Department at Goondacul, Do for Clerks & for Porters & Pointsmen at Raichore.

G. Small items. These include the Shear Legs at Raichur, Weigh bridge & office at Bellary and Miscellaneous Works at Raichore.

Mansfield Andrews.
Chief Engineer.

1st November 1872.

P. H. 5/4/45.72

From 10th Dec 1772 L. B. N. 210

From 10th Dec 1772 L. B. N. 210

D

General Progress Report of Work in erecting and building Locomotive and Rolling Stock for Quarter ending 30th September 1872.

	Number Sanctioned	Number erected up to 31st March 1872	Number erected during current year: During Quarter	Number erected during current year: To end of Quarter	Building or under erection at end of Quarter	Arrived at Store during Quarter	Arrived at Port during Quarter	Taken to Service in Port	Remarks
Locomotives	126	126							
Cylinders	106	106							
Sleeping Carriages	4	4							
1st Class	22	15							
1½	57	55							
2nd Brake	5	-							
3rd	30	30							
3½	207	171		35					
Cooly Class or Covered Carriages	25	25							
3rd Class Open Sheeted Carriages	2	2							
Composite Carriages	31	26							
Night Composite Carriages	16	6			10				
Engineer Inspection Carriage with Brake	1	1							
Sewaled Carriages	2	-			1				
Open Goods Waggons	30	352	Nil						a Sanction received in Government Order No. 272 and 3004 dated 22nd January and 12th December 1870, for Conversion of two of these Vehicles into Fire Engine Trucks and 292 into High Sided Open Goods Waggons.
Open Sided Goods Waggons									
High Sided Open Goods Waggons	2152	1860							b Sanction received in Government Order No. 3004 dated 12th December 1870, for Conversion of fifty of these Vehicles into Covered Goods Waggons.
High Open Goods	5	5							
Ballast	293	244							
Coke	360	410							
Road	7	7							
Cattle	35	35							
Road Waggons with Brake	25	22							
Covered Goods Waggons	75	28							c Sanction received from Consulting Engineer No. 397 dated 14th May 1864. for Conversion of three of these Vehicles into Road Brake Waggons.
Carriage Trucks	30	20		10					
Timber	150	144							
Platform	"	6							d Converted from Open Sided Goods Waggons
Fire Engine	2	"							
Water	4	4							e Sanction received from Consulting Engineer No. 397 dated 14th May 1864. for Conversion of these Six Vehicles into Timber Trucks.
Passenger Luggage Vans	25	25							
Goods Brake	09	00							
Gun Powder	3	3							
Oil Store	3	3			10				
Horse Boxes	50	40							
Travelling Cranes	4	4							
Buffer Springs						Nil			
Carriage and Waggon Springs						"			
Draw Springs						"			
Axles						"			
Wheels Pair of						"			
Sets of Iron Work Carriages						"			
" Waggons						"			
	3474	3604							

Certified as to Numbers sanctioned & Numbers erected

Secretary Comp.

Agent and Manager

Locomotive Superintendent

A

A

MADRAS RAILWAY.

General Progress Report of the Nilgherry Branch Line *for Quarter ending* 30th September 1872.

Reference to heads of Estimate.	DETAILS.	Total Estimate. Indian Expenditure.	Total Estimate. Value of English Stores.	Actual Indian Expenditure. During Quarter.	Actual Indian Expenditure. Total from Commencement to end of Quarter.	Number. Total.	Number. Finished.	Number. In hand.	Quantities. Total as per Estimate.	Quantities. Executed during Quarter.	Quantities. Executed to end of Quarter.	Quantities Permanent Way. Total Arrived in Port.	Quantities Permanent Way. Arrived in Port during Quarter.	Probable date. Of Completion.	Probable date. By which the Permanent Way could be laid if urgently required.	REMARKS.
		Rs.	Rs.	Rs.	Rs.											
I.	Preliminary Expenses.				10.944											
II	Land...															
III	Construction of Line...	756518	99737	58164	459236	-	-	-	C.yds 823264	C.yds 35636	C.yds 699798			31 March/73		
	Earthwork. {Cuttings and Embankment. Rock Cutting.	226398	-	12854	158797	Miles 25.09			C.yds 823264	C.yds 35636	C.yds 699798					
	Small Bridges and Culverts...	217976	17157	2725	159685	Nos. 106	Nos. 20	Nos. 86						31 March/73		
	Large Bridges (as per Statement B)	151171	82580	9237	60093	Nos. 8	Nos. 1	Nos. 7								
	Fencing.	36427	-	5896	11455	Miles 50.18	Miles 33.93	Miles 16.25								
	Other Items	124547	-	2922	69206	Nos. 6	Nos. -	Nos. 6.						31 March/73		
IV	Ballast and Permanent Way.	277607	671391	9935	84983	Miles 25.09	Miles -	Miles -								
	Ballast..... {Collected... Spread...	71882	-	5371	29343	Miles 25.09	Miles 16.65	Miles 8.44								
	Rails..... {Lifted ... Linked in ... In depôt.											19.086	-	31 March/73		
	Sleepers..... {Lifted..... {Iron... Wood ... Laid..... {Iron... Wood ... In depôt. {Iron... Wood ...	205725	671391	4564.	55640	25.09	21.31	3.78				118.927	-	31 March/73		
V	Stations and Buildings (as per Statement C)	181691	118298	23697	39024	20	-	20						30 June/73		
	(a) Platforms.	25085	4015.	4579	7573	5	-	5								
	(b) Passenger buildings.	30633	2530	8469.	18411	4	-	4								
	(c) Goods Sheds...	31069	11084	6405	6405.	2	-	2						30 June/73		
	(d) Watering Arrangements...	6746	2755.	831	2507.	1	-	1								
	(e) Staff Quarters, by rooms	12923	-	717	717.	3	-	3								
	(f) Engine Sheds	-	-	-	-											
	(g) Small Items...	72225	97914	2596.	3911	5.	-	5.								
VI	Telegraph...															
VII	Plant.	1639.														
VIII	Rolling Stock (Vide Statement D.)															
IX	Maintenance.	82789	-	Nil	Nil											
X	Establishment.	-	-	6669.	42508.											
XI	Contingencies...	-	-	-	-											

CHIEF ENGINEER'S OFFICE,
1st November 1872.

Chief Auditor.

Examiner of Railway Accounts.

Agent and Manager.

Chief Engineer.

A

A

MADRAS RAILWAY.

General Progress Report of the "South West Line" *for Quarter ending* 30th September 1872.

Reference to heads of Estimate.	DETAILS.	Total Estimate. Indian Expenditure.	Total Estimate. Value of English Stores.	Actual Indian Expenditure. During Quarter.	Actual Indian Expenditure. Total from Commencement to end of Quarter.	Number. Total.	Number. Finished.	Number. In hand	Quantities. Total as per Estimate.	Quantities. Executed during Quarter.	Quantities. Executed to end of Quarter.	Quantities Permanent Way. Total Arrived in Port.	Quantities Permanent Way. Arrived in Port during Quarter.	Probable date. Of Completion.	Probable date. By which the Permanent Way could be laid if urgently required.	REMARKS.
		Rs.	Rs.	Rs.	Rs.											
I	Preliminary Expenses.															
II	Land								C. Yards							
III	Construction of Line	358	"	"	"	"	"	"	1430	"	"	"	"	31 March/73	"	
	Earthwork. { Cuttings and Embankment. Rock Cutting.	358	"	"	"	"	"	"	1430	"	"	"	"	"	"	
	Small Bridges and Culverts															
	Large Bridges (as per Statement B)															
	Fencing								Miles of Track							
	Other Items															
IV	Ballast and Permanent Way	2901	5775	"	"	.63	"	.63	"	"	"	"	"	31 March/73	"	
	Ballast..... { Collected... Spread...	551	"	"	"	.63	"	.63	"	"	"	"	"	"	"	
	Rails..... { Lifted Linked in In depôt.															
	Sleepers..... { Lifted..... { Iron... Wood } Laid..... { Iron... Wood } In depôt. { Iron... Wood }	2350	5775	"	"	.63	"	.63	"	"	"	"	"	"	"	
V	Stations and Buildings (as per Statement C)	7097	3879	953	20814	3	"	3	"	"	"	"	"	"	"	
	(a) Platforms															
	(b) Passenger buildings															
	(c) Goods Sheds													30 Sept/72	"	
	(d) Watering Arrangements	5147	2769	884	20814	1	"	1	"	"	"	"	"			
	(e) Staff Quarters, by rooms															
	(f) Engine Sheds													31 Dec/72		
	(g) Small Items	1950	1110	99		2	"	2	"	"	"	"	"	"	"	
VI	Telegraph															
VII	Plant															
VIII	Rolling Stock (Vide Statement D.)	1.11.202	"	14471	68933	"	"	"								
IX	Maintenance															
X	Establishment															
XI	Contingencies	2.69.001	"	13.479	41726											

CHIEF ENGINEER'S OFFICE,
1st December 1872.

Chief Auditor

Examiner of Railway Accounts.

Agent and Manager.

Chief Engineer.

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14

MADRAS RAILWAY.

General Progress Report of the North West Line *for Quarter ending* 30th September 1872.

Reference to heads of Estimate.	DETAILS.	Total Estimate. Indian Expenditure.	Total Estimate. Value of English Stores.	Actual Indian Expenditure. During Quarter.	Actual Indian Expenditure. Total from Commencement to end of Quarter.	Number. Total.	Number. Finished.	Number. In hand.	Quantities. Total as per Estimate.	Quantities. Executed during Quarter.	Quantities. Executed to end of Quarter.	Quantities Permanent Way. Total Arrived in Port.	Quantities Permanent Way. Arrived in Port during Quarter.	Probable date. Of Completion.	Probable date. By which the Permanent Way could be laid if urgently required.	REMARKS.
		Rs.	Rs.	Rs.	Rs.											
I	Preliminary Expenses.															
II	Land...															
III	Construction of Line...	525560*	607190*	27234*	164807*	3	"	3	"	"	"	"	"	"	"	*Bridge No 286 Ms. 14 Tel poles - 30 June 1873 Ruggey Bridge — Not known Cheyler Bridge — Not known.
	Earthwork. { Cuttings and Embankment. ... Rock Cutting.															
	Small Bridges and Culverts...													X		
	Large Bridges (as per Statement B)	575300	607190	25949	163522	3	"	3	"	"	"	"	"		"	
	Fencing.													30th June 73.		
	Other Items	10260	"	1285.	1285.											
IV	Ballast and Permanent Way.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
	Ballast..... { Collected... ... ... Spread... ... ... }															
	Rails..... { Lifted ... ... Linked in ... ... In depôt. ... ... }															
	Sleepers..... { Lifted..... { Iron... ... ... Wood ... ... Laid..... { Iron... ... ... Wood ... ... In depôt. { Iron... ... ... Wood															
V	Stations and Buildings (as per Statement C) ...	106937*	93458*	4727*	56664*	21	13	8								
	(a) Platforms.	16923	5400	"	4365.	1	"	1								
	(b) Passenger buildings.	2141	"	20	36	2	"	2								
	(c) Goods Sheds...	"	"	"	"	"	"	"								
	(d) Watering Arrangements...	1774	209	867	1629	1	1	"								
	(e) Staff Quarters, by rooms	13921	"	3228	4940	4	2	2								
	(f) Engine Sheds	"	"	"	"	"	"	"								
	(g) Small Items...	72178	87849	612	35644	13	10	3								
VI	Telegraph...															
VII	Plant.															
VIII	Rolling Stock (Vide Statement D.)															
IX	Maintenance.	381117	"	20022	366894											
X	Establishment.															
XI	Contingencies...															

Chief Engineer's Office,
1st December 1872.

Chief Auditor.

Examiner of Railway Accounts.
2.1.73

Agent and Manager.

Chief Engineer.

B

B

MADRAS RAILWAY.

Progress Report of Large Bridges on the Nilgherry Branch Line *for the Quarter ending* 30th September 1872.

NAMES OF BRIDGES.	Foundations.	Abutments and piers up to Springing or girder level.	Arching or erection of Girders.	~~Observations~~	REMARKS.
At 5 Miles 68 Chains	Laid	Not up to top of Guide stones			Four 64 feet Openings with wrought Iron Girders.
a Percentage done		98.			
b. State of completion		Not completed			
At 19 Miles 10 Chains	Laid	Not up to top of Guide stones			——— do. ——— do. ———
a. Percentage done		97.			
b. State of completion		Not completed			
At 11 Miles 7 Chains	Laid	Not up to top of Guide stones			——— do. ——— do. ———
a. Percentage done		95.			
b. Date of completion		Not completed			
At 10 Miles 11 Chains	Laid	Not up to top of Guide stones			Double 64 ft. Openings with wrought Iron Girders
a Percentage done		96.			
b. Date of Completion		Not completed			
At 12 Miles 3 Chains	Laid	Not up to top of Guide stones			——— do. ——— do. ———
a Percentage done		96.			
b. Date of completion		Not completed.			
At 5 Miles 29 Chains	Laid	Not up to top of Guide stones			——— do. ——— do ———
a Percentage done		99.			
b. Date of Completion		Not completed.			
At 6 Miles 46 Chains	Laid	Abutments foundations laid and Two Piers (Rivetted Trusts) in progress about 80.			Triple 30 ft. Openings with wrought Iron Girders
a. Percentage done					
b. Date of Completion					
At 24 Miles 34 Chains	Laid	Abutments foundations laid			Single 12 ft. Arch.
a Percentage done		17.			
b. State of completion		Not completed.			

The works of Plate Girder Bridges, contracted by the 31st March 1873 will probably be completed

CHIEF ENGINEER'S OFFICE,
1st November 1872.

a. This refers to the approximate per centage of the whole work done at the end of the Quarter. Not to the money expenditure.
b. This refers to the probable date of completion of each item.

Wm Paul Andrews.
Chief Engineer.

B B

MADRAS RAILWAY.

Progress Report of Large Bridges on the South West Line *for the Quarter ending* 30th September 1872.

NAMES OF BRIDGES.	Foundations.	Abutments and piers up to Springing or girder level.	Arching or erection of Girders.	Other items.	REMARKS.
	Nil		Nil		

CHIEF ENGINEER'S OFFICE,
1st December 1872.

Blandford Anderson
Chief Engineer.

B

B

MADRAS RAILWAY.

Progress Report of Large Bridges on the North West Line *for the Quarter ending* 30th September 1872.

NAMES OF BRIDGES.		Foundations.	Abutments and piers up to Springing or girder level.	Arching or erection of Girders.	Other items.	REMARKS.
			One abutment and seven Piers up to Girder level, eighth pier half finished. —		Earthwork & m approaches & 3 feet Culvert.	
Cheyair Bridge.	a. Percentage done	60.	58.	Nil	Finished	These figures refer to the Masonry portion only. Iron Cylinders have not yet arrived from England.
	b. Date of completion	30th June 1873	Not Known.	Not known.		
Bridge at 28th Miles 14 Telegraph post.	a. Percentage done	10.				The Sanction was received so late in the year that there was only time to make a diversion & put in pier wall up to floor. No work done to new pier and Abutment.
	b. Date of completion	30th June 1873.				
			Nine Screw Pile Piers on Bellary side finished, the remaining piers are awaiting Cylinders from England.	Seven Sets of Girders are written on Bellary bank & six Sets on Madras Bank.		
Huggy Bridge.	a. Percentage done	"	10.	X		X Cannot fix a date until I am informed when Cylinders may be expected from England.
	b. Date of completion	"	not known.	not known.		

CHIEF ENGINEER'S OFFICE,
1st November 1872.

Chief Engineer.

C C

MADRAS RAILWAY.

Progress Report of Stations on the Kulgherry Branch Line *for the Quarter ending* 30th September 1872.

NAMES OF STATIONS.		a Platform.	b Passenger buildings.	c Goods Shed.	d Watering arrangements.	e Staff Quarters (by rooms.)	f Engine Sheds.	g Small items.	REMARKS.
Podiakoor at 9 Miles 6 Chains	a. Percentage done	Completed	Completed	"		"	"	"	
	b. Date of Completion	30th June 1872	30th June 1872	"		"	"	"	
Haramai at 20 Miles 43 Chs.	a. Percentage done	Completed	Completed	"	In progress	"	"	"	
	b. Date of Completion	30th June, 1872	30th June 1872	"	31st December 1872	"	"	"	
Coimbatore at 2 Miles 77 Chs.	a. Percentage done	95.	95.	75.		50.	"	25.	
	b. Date of Completion	25th October 1872	25th October 1872	15th November 1872 ~~Not Completed~~		1st December 1872	"	15th Novr. 1872	
Pothanoor at 301 Miles 69 Chs. from Madras	a. Percentage done	Not Commenced							
	b. Date of Completion		30th June 1873						
Mettapalliem at 24 Miles 79 Chs.	a. Percentage done	35.	35.	18.		36.	"	32.	
	b. Date of Completion	31st March 1873	31st March 1873	31st March 1873		31st March 1873	"	31st March 1873	

CHIEF ENGINEER'S OFFICE,
1st November 1872.

a. This refers to the approximate per centage of the whole work done, at the end of the Quarter; Not to the money Expenditure.

b. This refers to the probable date of Completion of Each item.

Blissfield Anderson.
Chief Engineer.

C C

19 13

MADRAS RAILWAY.

Progress Report of Stations on the South West Line *for the Quarter ending* 30th September 1872.

NAMES OF STATIONS.	*a* Platform.	*b* Passenger buildings.	*c* Goods Shed.	*d* Watering arrangements.	*e* Staff Quarters (by rooms.)	*f* Engine Sheds.	*g* Small items.	REMARKS.
	Nil		Nil			Nil		

Chief Engineer's Office,
1st November 1872.

Glenfield Anderson
Chief Engineer.

C C

MADRAS RAILWAY.

Progress Report of Stations on the North West Line *for the Quarter ending* 30th September 1872.

NAMES OF STATIONS.	a Platform.	b Passenger buildings.	c Goods Shed.	d Watering arrangements.	e Staff Quarters (by rooms.)	f Engine Sheds.	g Small items.	REMARKS.
							7	
Raichoor	×	Completed	Completed	※ Completed	Completed	⊖ Completed	※ Completed	× Station House. Platform completed. Covered Platform as last report. ※ Wash out pocks in Engine Shed not put in. all other works completed. ⊖ Engine Shed Masonry finished. Carriage Shed completed. ※ All completed except Shear legs not erected. Ash Pit under Shear legs not constructed.

Chief Engineer's Office,
1st November 1872.

Chief Engineer.

A. A. 870572

Railway Department.

CONSULTING ENGINEER'S OFFICE,

No. 637

From

LIEUT.-COLONEL J. H. M. SHAW STEWART, R.E.,

Consulting Engineer for Railways,

To

COLONEL G. W. WALKER, R.E.,

Secretary to Government,

Public Works Department,

Fort Saint George.

SIR,

I have the honour to forward, for submission to the Government of India, the report of progress made in the construction of the Madras Railway, for the quarter ended the 30th September 1872 accompanied by a brief descriptive report.

I have the honour to be,

Sir,

Your most Obed't Servant,

Lieut Col R.E.

Cons Engr for Railways

Madras
20th Nov.
1872

Railway Department.

1872.

From

The Consulting Engineer
for Railways,

To

The Secretary to Government,
P. W. [illegible]
Fort Saint George.

Dated 20 }
Recd. 21 } November 1872.

G.O. 10th Dec 1872 No 3920

No. 137
Public Works
Forwarding for
submission to Govt
of India Progress
Report of construction
of R. Rly. for the quarter
ended 30th September
1872 with a brief
[illegible]
Letter Order

Public Works 1872 Sept
No 5745

2919

Proceed that this report be laid before the Council.

Submitted to the Government of India.

Chief Engineer
for Railways.

Chief Engineer's Office
City of the above, forwarded
Esqrs. 15/11/72 to the Secretary to Government of Madras.

Rec'd 15/11/72 [illegible]

210 & 212.

2919-22
10-12-1872